

## INTERNATIONAL SEARCH REPORT

PCT/IB2004/002436

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 F25D17/06 F25D23/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 F25D F25C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 840 037 A (YAMADA KOJI ET AL) 20 June 1989 (1989-06-20)  column 3, lines 35-68; figure 3	1-7, 10-19, 28,29
Y	----- US 6 240 739 B1 (HAYES PAUL MICHAEL) 5 June 2001 (2001-06-05) abstract; figures 1-3 column 5, line 4 - column 6, line 12 -----	20,21, 23-27, 30,31
Y	----- -/-	20,21

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

7 March 2005

Date of mailing of the international search report

24.03.2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 826 437 A (KIM HYUNG-KWAN) 27 October 1998 (1998-10-27) abstract; figures 2,3 column 2, lines 3-6 column 2, lines 46-49 column 3, lines 52-54 -----	23-27
Y	EP 0 881 441 A (LG ELECTRONICS INC) 2 December 1998 (1998-12-02) cited in the application figure 13 -----	30,31
Y	EP 0 374 021 A (SOCIETE D'ELECTROMENAGER DU NORD SELNOR) 20 June 1990 (1990-06-20) abstract; figure 3 -----	31
Y	FR 2 583 859 A (MANAS FERNANDEZ JORGE) 26 December 1986 (1986-12-26) page 2, lines 19-40; figure 1 -----	31
X	FR 2 205 653 A (CARSA) 31 May 1974 (1974-05-31)  figure 1 -----	1-7,10, 12, 14-19,28
X	DE 195 42 978 A (LINDE AG) 22 May 1997 (1997-05-22)  abstract; figures 3,4 -----	1,2,4, 10,12, 14-19,28

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4840037	A	20-06-1989	JP DE FR GB KR	63137267 U 3806205 A1 2611385 A1 2201500 A ,B 9200790 Y1		09-09-1988 08-09-1988 02-09-1988 01-09-1988 31-01-1992
US 6240739	B1	05-06-2001	CA	2348117 A1		17-02-2002
US 5826437	A	27-10-1998	NONE			
EP 0881441	A	02-12-1998	KR KR KR CN DE EP EP JP JP US	155506 Y1 220394 B1 235439 B1 1200471 A ,C 69826562 D1 1323993 A2 0881441 A2 3391701 B2 11051537 A 5979174 A		01-09-1999 15-09-1999 15-12-1999 02-12-1998 04-11-2004 02-07-2003 02-12-1998 31-03-2003 26-02-1999 09-11-1999
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FR 2205653	A	31-05-1974	FR	2205653 A1		31-05-1974
DE 19542978	A	22-05-1997	DE	19542978 A1		22-05-1997

**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  
  
1-7, 10-21, 23-31
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,10-21, 23-29

System for supplying refrigerated air to a freezer or refrigerator cabinet  
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2. claim: 8

Frost-free system with heating cable and water-collecting part  
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3. claims: 9,22

Freezer and/or refrigerator cabinet with grooves provided on the door, on an inner wall and/or on a floor ducting part for improving the airflow  
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4. claims: 30, 31

Freezer and/or refrigerator cabinet with a door provided with a holder for an ice cube container  
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